

NCPMC/PD/W14/2022-23/NT-C1

Date: 01-12-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

[Project*: Development of park and Construction of Watchmen room at Bagalgunne 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone, Ward No.14.]

Ref. Material testing PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

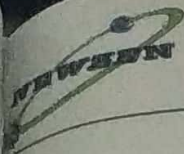
SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	169 min	Shall not be less than 30 min
2	Final setting time	271 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.12 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.01 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.61 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Nagalakshmi Temple Park

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W14/2022-23/NT-CE1

Date: 05-12-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	166 min	Shall not be less than 30 min
2	Final setting time	271 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.92 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.13 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	28.61 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Nagalakshmi Temple Park

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Asst. Executive Engineer
Project Division Dasarahalli Zone
BBMP, Bangalore



NEWZEN CONSULTANT BANGALORE, #304, First floor, 6th Cross, Gidadakonenahalli, Viswaneedam Post, Bangalore-560091. CELL NO: +91 8792620231, 080 23240187 EMAIL: newzen576@gmail.com



NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W14/2022-23/NT-FA1

Date: 05-12-2022

1. TESTING OF FINE AGGREGATES:

Sub: Testing of Fine Aggregates.

{Project*: Development of park and Construction of Watchmen room at Bagalunte 12th cross,
Nagalakshmi Temple Park in Dasarahalli Zone, Ward No.14.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

TABLE - 1.1: SIEVE ANALYSIS:

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -II	
04.75	98.40	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.20	60-95	75-100	85-100	
01.18	66.80	30-70	55-90	75-100	
600. mic	55.10	15.34	35-59	60-79	
300.mic	19.40	5-20	8-30	12-40	
150.mic	5.90	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	16.84 %	-----
2	Silt Content	----	0.70 %	Not more than 8%
3	Specific Gravity	----	2.61	-----

The result of the materials tested meets the standards and hence can be used for the work.

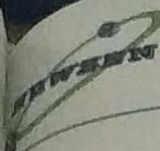
Sample Collected Site : Nagalakshmi Temple Park

[Signature]

Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore



NEWZEN CONSULTANT BANGALORE, #304, First floor, 6 Cross, Oldadakonenahalli, Viswaneedam Post, Bangalore-560091. CELL NO: +91 8792620231, 080 23240187 EMAIL: newzen576@gmail.com



NC/PMC/PD/W14/2022-23/NT-CA1

Date: 05-12-2022

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002)	
		% Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	98.30	85-100	90 - 100
10 mm	41.90	0 - 20	25 - 55
4.75 mm	5.70	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) - 1963 (Reaffirmed on 2002)
1.	Flakiness Index	23.14 %	Not to exceed 25 %
2.	Crushing value	27.99 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Nagalakshmi Temple Park

S. Anand

Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore





NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W14/2022-23/NT-SSM1

Date: 07-12-2022

TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.}

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1378.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption, %	0.44 %	Not more than 2.0 %

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Nagalakshmi Temple Park

Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore



NC/PMC/PD/W14/2022-23/NT-88M2

Date: 09-12-2022

TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

(Project*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross,
Nagalakshmi Temple Park in Dasarahalli Zone, Ward No.14.)

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

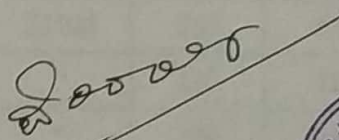
Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

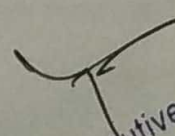
Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1322.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption, %	0.44 %	Not more than 2.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Nagalakshmi Temple Park




Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore

NCPMC/PD/W14/2022-23/NT-CBI

Date: 19-12-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub. Testing of Concrete Cubes (for 07days Compressive Strength).

Project*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.}

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	12-12-22	19-12-22	07	22500	335	14.89	14.30
	002	"	"	"	"	310	13.78	
	003	"	"	"	"	320	14.22	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Nagalakshmi Temple Park

Signature

Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore



NCPMC/PD/W14/2022-23/NT-CB1A

Date: 09-01-2023

TEST REPORT ON CEMENT CONCRETE CUBES:

Sub Testing of Concrete Cubes (for 28days Compressive Strength).

Project*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.}

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE
CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
001	12-12-22	09-01-23	28	22500	470	20.89	20.89
002	"	"	"	"	465	20.67	
003	"	"	"	"	475	21.11	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Nagalakshmi Temple Park

[Signature]

Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore



WPCMC/PD/W14/2022-23/NT-C2

Date: 19-01-2022

TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
Project*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.}
Ref: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

Name of Test	Test Results	Requirements as per IS 8112-1989
Initial setting time	169 min	Shall not be less than 30 min
Final setting time	282 min	Shall not be more than 600 min
Fineness (by dry sieving on IS 90 micron sieve)	1.96 %	Not to exceed 10.0%
Soundness test (by Le-Chatelier's method)	1.83 mm	Shall not be more than 10 mm
Compressive strength e) 3 days (average of three results)	28.11 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Bagalgunte Lake Park

Signature



Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore

PMC/22-23/NT-CB2

TEST REPORT ON CEMENT CONCRETE CUBES

Date: 30-12-2022

Testing of Concrete Cubes (for 07days Compressive Strength).
Development of park and Construction of Watchmen room at Bagalgunte 12th cross,
Nagalakshmi Temple Park in Dasarahalli Zone, Ward No.14.]

Material testing/PMC/22-23,
Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE
CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M₂₀

TABLE:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/mm ²)	Avg. Value
001	23-12-22	30-12-22	07	22500	355	15.78	15.41
002	"	"	"	"	340	15.11	
003	"	"	"	"	345	15.33	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Bagalgunte Lake Park

[Signature]



Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore

PMC/DP/W14/2022-23/NT-CB2A

Date: 20-01-2023

TEST REPORT ON CEMENT CONCRETE CUBES:

Testing of Concrete Cubes (for 28days Compressive Strength).
Development of park and Construction of Watchmen room at Bagalgunte 12th cross,
Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.)
Material testing/PMC/22-23,
Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M₂₀

TABLE 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
001	23-12-22	20-01-23	28	22500	470	20.89	20.52
002	"	"	"	"	455	20.22	
003	"	"	"	"	460	20.44	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Bagalgunte Lake Park

[Signature]

Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore

PMCDW14/2022-23/NT-CB3

Date: 02-01-2023

TEST REPORT ON CEMENT CONCRETE CUBES:

Testing of Concrete Cubes (for 07 days Compressive Strength)
Project*: Development of park and Construction of Watchmen room at Bagalagunte 1st cross,
Nagalakshmi Temple Park in Dasarahalli Zone. Ward No 14.

Mat. Material testing/PMC/22-23,
Person Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naichu, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE
CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M₂₀

TABLE L.1:

S. No.	Location/Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/mm ²)	Avg. Value
1	001	26-12-22	02-01-23	07	22500	350	15.56	15.85
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	355	15.78	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Kirlaskar Layout Park Part-2

Signature
Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore



PMC/PD/W/14/2022-23/NT-CB3A

Date: 23-01-2023

TEST REPORT ON CEMENT CONCRETE CUBES:

Sub Testing of Concrete Cubes (for 28days Compressive Strength).
Project: Development of park and Construction of Watchmen room at Bagaligunte [2th cross, Nagalakshmi Temple Park in Dasarahalli Zone, Ward No.14.]
Ref. Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M₂₀

TABLE 1.1:

Sl. No.	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	26-12-22	23-01-23	28	22500	465	20.67	21.26
	002	"	"	"	"	485	21.56	
	003	"	"	"	"	485	21.56	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Kirloskar Layout Park Part-2

S. Anand
Asst. Executive Engineer
Project Division, Dasarahalli
BBMP, Bangalore



PMC/PD/W14/2022-23/NT-K1

Date: 23-01-2023

TEST REPORT

Testing of Pre-cast Material-Kerb Stones.

Project*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.}

Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

1. PHYSICAL TESTS ON KERB STONES:

Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
85.00	0.394	2360.74	1.70	0.960	31.82	16.21	17.50	16.80	21.00
85.00	0.402	2408.67	1.70	0.960	32.05	16.32	17.63	16.92	21.15
85.00	0.407	2438.63	1.70	0.960	31.70	16.14	17.44	16.74	20.92

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Bagalgunte Lake Park

Page No. 1/1

[Signature]
Asst. Executive Engineer
Project Division, Dasarahalli Zone,
BBMP, Bangalore

